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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/636,064	08/07/2003	Leisha J. Rotering	H0003883/13358.18USU1	1001

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EXAMINER

BUSHEY, CHARLES S

ART UNIT PAPER NUMBER

1724

DATE MAILED: 08/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/636,064	ROTERING ET AL.	
	Examiner	Art Unit	
	Scott Bushey	1724	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 June 2005.
 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 35-66 is/are pending in the application.
 4a) Of the above claim(s) 1-13, 48 and 50-66 is/are withdrawn from consideration.
 5) ☐ Claim(s) _____ is/are allowed.
 6) ☒ Claim(s) 35-47 and 49 is/are rejected.
 7) ☐ Claim(s) _____ is/are objected to.
 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Newly submitted claims 1-13, 48, and 50-66 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons:

Claims 1-13, as amended, as well as 48, and 50-66, as newly added are drawn to a combination, while claims 35-47, and 49 are drawn to a subcombination, which has been considered in the previous Office action. The combination, as claimed does not require the filter assembly to have the capability of eliminating micron sized particles, as was required by the subcombination as previously examined in the previous Office action. The subcombination has a separate utility, such as use as a portable room air humidifier, without associated ductwork.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 1-13, 48, and 50-66 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 1724

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 35-39, 41-47, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swan taken together with Monroe et al.

Swan (Fig. 1) substantially discloses applicant's invention as recited by instant claims 35-39, 41-47, and 49, except for the filter means (27) being capable of removing particles of 1.0 micrometer size and smaller (claims 44, 45, and 49) specifically by using a reverse osmosis filter (claims 46 and 47). Swan also fails to teach controlling the inlet solenoid valve (20) by the use of first and second level detection floats, which detect both high and low levels of fluid within a container downstream of the filter means. Swan does teach controlling liquid flow to a heated reservoir (boiler tank 22) via passage through a filter (27) by the controlled operation of an electrically activated solenoid valve (20).

Monroe et al (col. 5, lines 12-16, 60-67; col. 6, lines 1-5; col. 8, lines 34-37, 58-67; col. 9, lines 1-6; col. 10, lines 24-28, 42-55; col. 11, lines 33-45, 56-60; col. 12, lines 10-67; col. 13, lines 1-4, 56-67; col. 15, lines 23-27) disclose a water filtering and

Art Unit: 1724

heating system similar to that of Swan, wherein the device utilizes multiple filters in series culminating in the use of a reverse osmosis filter, all upstream of a collection tank, which may feed the filtered water to a water heating means. Monroe et al also teach controlling water flow to the collection tank and thus through the upstream filter assembly by feedback control using upper and lower level water sensors within the collection tank. It would have been obvious to an artisan at the time of the invention, to modify the humidifier system as taught by Swan to include high purity filtration means, such as reverse osmosis filters, and also to control the flow of water through the apparatus with multiple level sensing floats, in view of Monroe et al, since such would reduce maintenance downtime due to mineral buildup on the downstream heaters and/or appliances, as well as optimizing the operation of the device by controlling water flow there through relative to the amount required to humidify the requisite area to the level necessary.

5. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over the reference combination as applied to claims 35-39, 41-47, and 49 above, and further in view of Guetersloh et al.

The reference combination as applied to claims 35-39, 41-47, and 49 above substantially discloses applicant's invention as recited by instant claim 40, except for the float means including a magnet and reed switch.

Guetersloh et al (col. 5, lines 38-50) teach a humidifier system similar to that as taught by the primary reference combination, wherein the water level sensing float member includes a magnet and reed switch, as is well known within the art. It would

Art Unit: 1724

have been obvious to an artisan at the time of the invention, to modify the water level sensing float member of the primary reference combination, to include a magnet and reed switch in view of Guetersloh et al, since such would allow for much of the vital control circuit hardware to remain outside of the corrosive environment of the heated reservoir, thereby increasing the useful life of the device.

Response to Arguments

6. Applicant's arguments filed June 3, 2005 have been fully considered but they are not persuasive. Applicant's arguments filed June 3, 2005 pertaining to claims 1-13, 48, and 50-66 are moot in view of their withdrawn status, as discussed in paragraph 1 above.

With respect to the art rejection of claims 35-39, and 41-47, applicant's arguments are reliant upon the premise that Swan does not teach a level of fluid within the reservoir, and therefore one having ordinary skill in the art would not look to Monroe et al to provide upper and lower level indicators. This is not found to be persuasive since Swan clearly teaches the heated reservoir being in the form of a "boiler tank". One having ordinary skill in the art would recognize that a boiler tank is not a flash vaporization chamber, as apparently alleged by applicant. While Swan clearly discloses that the boiler tank utilized by the reference is of small volume (note col. 3, lines 16-18), it is also noted that the band heater of Swan is in two parts to maintain the boiler at a constant temperature, the bands operable to boil water that condenses at the top of the tank or collects in the bottom thereof.

Art Unit: 1724

It is noted that applicant has not separately argued the rejection of claim 40 in view of Guetersloh et al.

7. Applicant's arguments with respect to claim new 49 have been considered but are moot in view of the new ground of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Bushey whose telephone number is 571 272-1153. The examiner can normally be reached on M-Th 6:30-5:00.

Art Unit: 1724

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Bushey
Primary Examiner
Art Unit 1724


8-2-05

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